

- 1/1 - (C) WPI / DERWENT
- AN - 1994-354660 [44]
- AP - JP19930097273 19930331
- PR - JP19930097273 19930331
- TI - Prepn. of compsn. contg. insulin-like growth factor-1, effective for enhancing strength of bone esp. for osteoporosis - by heating milk or raw material from milk at specified temp. then removing or concentrating with fraction of specified mol.wt.
- IW - PREPARATION COMPOSITION CONTAIN INSULIN GROWTH FACTOR EFFECT ENHANCE STRENGTH BONE OSTEOPOROSIS HEAT MILK RAW MATERIAL MILK SPECIFIED TEMPERATURE REMOVE CONCENTRATE FRACTION SPECIFIED MOLECULAR WEIGHT
- PA - (SNOW ) SNOW BRAND MILK PROD CO LTD
- PN - JP6279312 A 19941004 DW199444 A61K37/36 005pp
- ORD - 1994-10-04
- IC - A61K35/20 ; A61K37/16 ; A61K37/36 ; C07K1/14 ; C07K7/10 ; C07K99/00
- FS - CPI
- DC - B04 D13
- AB - J06279312 Prepn. of a compsn. contg. an insulin-like growth factor comprises heating milk or a raw material originated from milk at a temp. T of at least -5(pH) + 100 (pH = 2-7); removing resultant ppt. and concentrating with a membrane of a fractionation mol.wt. up to 10 kDa.
- USE/ADVANTAGE - Compsn. enhances strength of bones and is useful for preventing and curing diseases of bones and joints, esp. osteoporosis. Long intakes of compsn. increases peak bone mass, and compsn. is useful as ingredient for food, drink, drugs and feed.
- In an example, a whey serum condensate was dissolved in distilled water to concn. of 10% to prepare soln. of whey protein having pH 6.8. Soln. was heated to various temps. for 10 minutes centrifuged at 17000 G. Resultant supernatant was recovered, conc. with UF membrane of fractionation mol.wt. 8 kDa and freeze-dried to obtain powder compsn. contg. insulin-like growth factor-1. Concn. of factor was determined by radio immunoassay to be 14.9 micrograms/g for retention temp. of 65 deg.C, 18.4 micrograms/g for 75 deg.C, 22.5 micro grams/g for 85 deg.C, 24.2 micrograms/g for 90 deg.C and 18.7 micrograms/g for 100 deg.C. (Dwg.0/3)